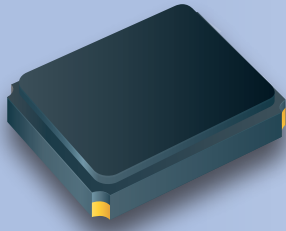


# SMD Glass Sealing Crystals

## 2.5 x 2.0 x 0.75 mm 7S Series



### Features

- 4 pads SMD glass sealed Crystal.
- Applications for NB, DSC, USB, Variety of compact portable consumer products reference clocks.
- High reliable environmental performance.
- Contains Pb in sealing glass exempted by RoHS directive.

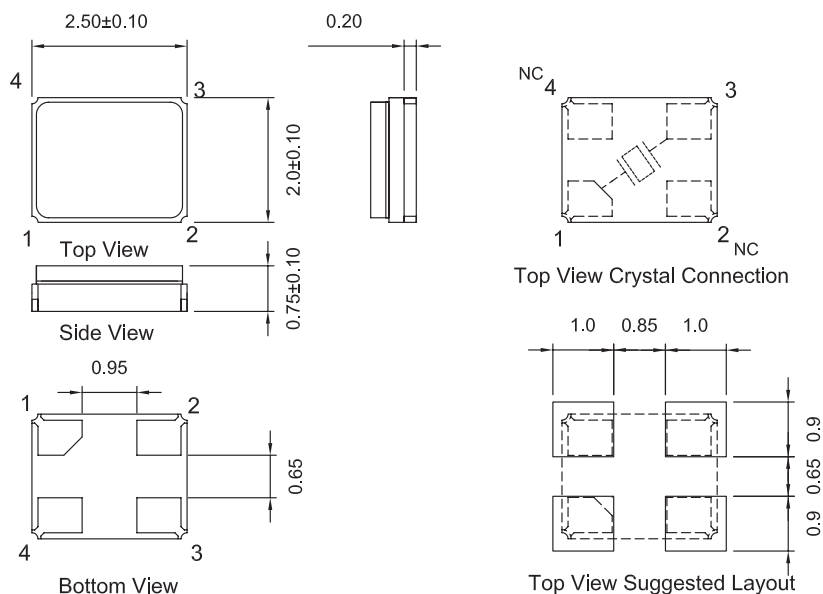
### Electrical Specifications

Item / Type	7S
Frequency Range	12 ~ 64 MHz
Frequency Tolerance (at 25 °C)	± 10 ppm, ± 20 ppm, or specify
Frequency Stability Over Operating Temperature Range	± 10 ppm, ± 20 ppm, or specify
Operating Temperature Range	-10 ~ + 70 °C, or specify
Shunt Capacitance (C0)	3 pF Max.
Drive Level	1 ~ 50 μW ( 10 μW typical)
Load Capacitance	8 pF, 10 pF, or specify
Aging (at 25 °C)	± 3 ppm / year Max.
Storage Temperature Range	- 40 ~ + 85 °C

### Equivalent Series Resistance(ESR)

Fundamental			
12 ~ 13 MHz	200 Ω Max.	20 ~ 27 MHz	80 Ω Max.
13 ~ 16 MHz	150 Ω Max.	27 ~ 64 MHz	60 Ω Max.
16 ~ 20 MHz	100 Ω Max.		

### Dimensions



Units: mm